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<140> 10/808,052

<141> 2004-03-24

<150> 60/457,048

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<170> PatentIn Ver. 2.1

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Gln Gly Gly Leu Ala Ile Asp Ile Ser Gly Ser Met Glu Phe Ser Leu 755 760 765		
Trp Tyr Arg Glu Ser Lys Thr Arg Val Lys Asn Arg Val Ala Val Val 770 775 780		
Ile Thr Ser Asp Val Thr Val Asp Ala Ser Phe Val Lys Ala Gly Leu 785 790 795 800		
Glu Ser Arg Ala Glu Thr Glu Ala Gly Leu Glu Phe Ile Ser Thr Val 805 810 815		
Gln Phe Ser Gln Tyr Pro Phe Leu Val Cys Met Gln Met Asp Lys Ala 820 825 830		
Glu Ala Pro Leu Arg Gln Phe Glu Thr Lys Tyr Glu Arg Leu Ser Thr		

835	840	845
Gly Arg Gly Tyr Val Ser Arg Arg Arg Lys Glu Ser Leu Val Ala Gly		
850	855	860
Cys Glu Leu Pro Leu His Gln Gln Asn Ser Glu Met Cys Asn Val Val		
865	870	875
Phe Pro Pro Gln Pro Glu Ser Asp Asn Ser Gly Gly Trp Phe		
885	890	

<210> 7
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:oligonucleotide
 primer

<400> 7
 ggagaaacgg tcataattgt g 21

<210> 8
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:oligonucleotide
 primer

<400> 8
 gtgggccgct ctaggcacca a 21

<210> 9
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:oligonucleotide
 primer

<400> 9
 ctctttgatg tcacgcacga tttc 24

<210> 10
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide
primer

<400> 10

ggacttttttg gatttcaaaa gtgac

25

<210> 11

<211> 265

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)..(261)

<223> Wherein Xaa is any amino acid.

<400> 11

Met Asp Pro Pro Arg Pro Ala Leu Leu Ala Leu Leu Ala Xaa Pro Xaa
1 5 10 15

Leu Leu Leu Leu Leu Leu Ala Gly Ala Arg Xaa Glu Glu Glu Xaa Leu
20 25 30

Glu Asn Val Xaa Leu Val Cys Pro Lys Asp Xaa Thr Arg Phe Xaa His
35 40 45

Leu Xaa Lys Xaa Xaa Thr Tyr Asn Tyr Glu Ala Glu Ser Ser Ser Gly
50 55 60

Val Pro Gly Thr Ala Xaa Ser Arg Ser Ala Thr Arg Xaa Asn Cys Lys
65 70 75 80

Xaa Glu Leu Glu Val Pro Gln Leu Cys Ser Phe Ile Leu Lys Xaa Ser
85 90 95

Gln Cys Thr Leu Lys Glu Val Tyr Gly Phe Asn Pro Glu Gly Lys Ala
100 105 110

Leu Leu Lys Lys Thr Lys Asn Ser Xaa Glu Xaa Ala Ala Ala Met Ser
115 120 125

Arg Xaa Glu Leu Lys Leu Ala Ile Pro Glu Gly Lys Gln Val Phe Leu
130 135 140

Tyr Pro Glu Lys Asp Glu Pro Thr Tyr Ile Leu Asn Ile Lys Arg Gly
145 150 155 160

Ile Ile Ser Ala Leu Leu Val Pro Pro Glu Xaa Glu Glu Ala Lys Gln
165 170 175

Xaa Leu Phe Xaa Asp Thr Val Tyr Gly Asn Cys Ser Thr His Phe Thr
180 185 190

Val Lys Thr Arg Xaa Gly Asn Xaa Ala Thr Xaa Xaa Ser Thr Glu Arg
195 200 205

Asp Leu Gly Gln Cys Asp Arg Phe Lys Pro Ile Arg Thr Gly Ile Ser
 210 215 220
 Pro Xaa Ala Leu Ile Lys Gly Met Xaa Arg Pro Leu Ser Thr Leu Ile
 225 230 235 240
 Xaa Ser Xaa Gln Ser Cys Gln Xaa Thr Leu Asp Ala Lys Arg Lys His
 245 250 255
 Val Ala Glu Ala Xaa Cys Lys Glu Gln
 260 265

<210> 12
 <211> 335
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)..(335)
 <223> Wherein Xaa is any amino acid.

<400> 12
 Met Gly Cys Leu Leu Phe Leu Leu Leu Trp Ala Leu Leu Gln Ala Trp
 1 5 10 15
 Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln
 20 25 30
 Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Arg Thr Asp Gly Leu Ala
 35 40 45
 Trp Leu Gly Glu Leu Gln Thr His Xaa Trp Ser Asn Asp Ser Asp Thr
 50 55 60
 Val Arg Xaa Xaa Lys Pro Trp Ser Gln Gly Thr Phe Ser Asp Gln Gln
 65 70 75 80
 Trp Glu Thr Leu Gln His Ile Phe Arg Val Tyr Arg Ser Ser Phe Thr
 85 90 95
 Xaa Asp Xaa Lys Glu Xaa Ala Lys Xaa Xaa Arg Leu Ser Tyr Pro Leu
 100 105 110
 Glu Leu Gln Xaa Ser Ala Gly Cys Glu Xaa His Pro Gly Asn Ala Ser
 115 120 125
 Asn Asn Phe Phe His Val Ala Phe Gln Gly Lys Asp Ile Leu Ser Phe
 130 135 140
 Gln Gly Thr Ser Xaa Glu Pro Xaa Gln Glu Ala Pro Xaa Trp Val Asn
 145 150 155 160
 Leu Ala Xaa Gln Xaa Leu Asn Gln Asp Lys Trp Thr Xaa Glu Thr Xaa
 165 170 175

Gln Trp Leu Leu Asn Gly Thr Cys Pro Gln Phe Val Ser Gly Leu Leu
 180 185 190
 Glu Ser Gly Lys Ser Glu Leu Lys Lys Gln Val Lys Pro Lys Xaa Trp
 195 200 205
 Leu Ser Arg Gly Pro Xaa Pro Xaa Pro Gly Arg Leu Leu Leu Xaa Cys
 210 215 220
 His Val Ser Gly Xaa Tyr Pro Lys Pro Val Trp Val Lys Trp Xaa Xaa
 225 230 235 240
 Gly Glu Gln Glu Gln Gln Gly Thr Gln Pro Xaa Asp Xaa Xaa Pro Asn
 245 250 255
 Xaa Asp Glu Thr Trp Tyr Leu Arg Ala Thr Leu Xaa Val Xaa Ala Gly
 260 265 270
 Glu Ala Xaa Gly Leu Ser Cys Arg Val Lys His Ser Ser Leu Xaa Gly
 275 280 285
 Gln Asp Ile Val Leu Tyr Trp Gly Gly Ser Tyr Thr Ser Met Gly Leu
 290 295 300
 Ile Ala Leu Ala Val Leu Ala Cys Leu Leu Phe Leu Leu Ile Val Gly
 305 310 315 320
 Phe Thr Ser Arg Phe Lys Arg Gln Thr Ser Tyr Gln Gly Val Leu
 325 330 335

<210> 13

<211> 210

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)..(210)

<223> Wherein Xaa is any amino acid.

<400> 13

Lys Cys Val Gln Ser Xaa Lys Pro Ser Leu Met Ile Gln Lys Ala Xaa
 1 5 10 15

Xaa Gln Ala Leu Arg Lys Met Glu Pro Lys Asp Lys Asp Gln Glu Val
 20 25 30

Leu Leu Gln Thr Phe Leu Asp Asp Ala Ser Pro Gly Asp Xaa Arg Xaa
 35 40 45

Ala Ala Xaa Leu Met Xaa Xaa Arg Ser Pro Ser Gln Ala Asp Xaa Asn
 50 55 60

Lys Ile Val Gln Xaa Leu Pro Trp Glu Gln Asn Glu Gln Val Lys Asn
 65 70 75 80

Xaa Val Ala Xaa His Ile Ala Asn Xaa Leu Asn Ser Glu Glu Xaa Asp
 85 90 95
 Xaa Gln Asp Leu Lys Lys Leu Val Xaa Glu Ala Xaa Lys Glu Ser Gln
 100 105 110
 Leu Pro Thr Val Met Asp Phe Arg Lys Phe Ser Arg Asn Tyr Gln Leu
 115 120 125
 Tyr Lys Ser Val Xaa Leu Pro Ser Leu Asp Pro Xaa Ser Xaa Lys Ile
 130 135 140
 Glu Gly Asn Leu Xaa Phe Asp Pro Asn Asn Xaa Leu Pro Lys Glu Ser
 145 150 155 160
 Met Xaa Xaa Thr Thr Leu Thr Ala Phe Gly Phe Ala Ser Xaa Asp Xaa
 165 170 175
 Xaa Glu Ile Xaa Leu Glu Gly Lys Gly Phe Glu Pro Thr Leu Xaa Ala
 180 185 190
 Xaa Phe Gly Lys Gln Xaa Phe Phe Pro Xaa Ser Val Asn Lys Ala Leu
 195 200 205
 Tyr Trp
 210

<210> 14
 <211> 301
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)..(301)
 <223> Wherein Xaa is any amino acid.

<400> 14
 Phe Ser Tyr Asn Asn Lys Tyr Gly Met Val Ala Gln Val Thr Gln Thr
 1 5 10 15
 Leu Lys Leu Glu Asp Thr Pro Lys Ile Asn Ser Arg Phe Phe Gly Glu
 20 25 30
 Gly Thr Xaa Lys Met Gly Leu Ala Xaa Glu Ser Thr Lys Ser Thr Ser
 35 40 45
 Pro Pro Lys Xaa Ala Glu Ala Val Xaa Xaa Xaa Leu Gln Glu Leu Lys
 50 55 60
 Lys Leu Thr Ile Ser Xaa Gln Xaa Ile Gln Arg Ala Xaa Leu Phe Asn
 65 70 75 80
 Xaa Xaa Val Thr Glu Leu Arg Gly Leu Ser Asp Glu Ala Val Thr Ser
 85 90 95

Xaa Leu Pro Gln Leu Ile Glu Xaa Ser Ser Pro Xaa Xaa Leu Gln Ala
100 105 110
Leu Val Gln Cys Gly Xaa Pro Gln Cys Ser Thr His Ile Xaa Gln Xaa
115 120 125
Leu Lys Xaa Val His Ala Asn Pro Leu Leu Ile Asp Val Val Thr Tyr
130 135 140
Leu Val Ala Leu Xaa Pro Glu Pro Ser Ala Gln Gln Xaa Arg Glu Ile
145 150 155 160
Phe Asn Met Ala Arg Xaa Gln Arg Ser Arg Ala Thr Leu Tyr Ala Leu
165 170 175
Ser His Ala Val Asn Asn Tyr His Lys Xaa Asn Pro Xaa Gly Thr Gln
180 185 190
Glu Leu Xaa Asp Ile Ala Asn Xaa Leu Met Glu Gln Ile Gln Asp Asp
195 200 205
Cys Xaa Gly Asp Glu Asp Tyr Thr Tyr Leu Xaa Leu Arg Xaa Ile Gly
210 215 220
Asn Met Gly Gln Thr Met Glu Gln Leu Thr Pro Glu Leu Lys Ser Xaa
225 230 235 240
Ile Leu Lys Cys Val Gln Ser Thr Lys Pro Ser Xaa Xaa Ile Gln Lys
245 250 255
Ala Ala Ile Gln Xaa Leu Arg Lys Met Glu Pro Lys Asp Lys Asp Gln
260 265 270
Xaa Xaa Leu Leu Gln Thr Phe Leu Asp Asp Ala Ser Pro Gly Asp Lys
275 280 285
Arg Leu Ala Ala Tyr Leu Met Leu Xaa Arg Ser Pro Ser
290 295 300

<210> 15
<211> 335
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)..(335)
<223> Wherein Xaa is any amino acid.

<400> 15
Met Gly Cys Leu Leu Phe Leu Leu Leu Trp Ala Leu Leu Gln Ala Trp
1 5 10 15
Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln
20 25 30

Ile	Ser	Ser	Phe	Ala	Asn	Ser	Ser	Trp	Thr	Arg	Thr	Asp	Gly	Leu	Ala
		35					40					45			
Trp	Leu	Gly	Glu	Leu	Gln	Thr	His	Xaa	Trp	Ser	Asn	Asp	Ser	Asp	Thr
	50					55					60				
Val	Arg	Xaa	Xaa	Lys	Pro	Trp	Ser	Gln	Gly	Thr	Phe	Ser	Asp	Gln	Gln
	65				70					75					80
Trp	Glu	Thr	Leu	Gln	His	Ile	Phe	Arg	Val	Tyr	Arg	Ser	Ser	Phe	Thr
				85					90					95	
Xaa	Asp	Xaa	Lys	Glu	Xaa	Ala	Lys	Xaa	Xaa	Arg	Leu	Ser	Tyr	Pro	Leu
			100					105					110		
Glu	Leu	Gln	Xaa	Ser	Ala	Gly	Cys	Glu	Xaa	His	Pro	Gly	Asn	Ala	Ser
		115					120					125			
Asn	Asn	Phe	Phe	His	Val	Ala	Phe	Gln	Gly	Lys	Asp	Ile	Leu	Ser	Phe
	130					135					140				
Gln	Gly	Thr	Ser	Xaa	Glu	Pro	Xaa	Gln	Glu	Ala	Pro	Xaa	Trp	Val	Asn
	145				150					155					160
Leu	Ala	Xaa	Gln	Xaa	Leu	Asn	Gln	Asp	Lys	Trp	Thr	Xaa	Glu	Thr	Xaa
				165					170					175	
Gln	Trp	Leu	Leu	Asn	Gly	Thr	Cys	Pro	Gln	Phe	Val	Ser	Gly	Leu	Leu
			180					185					190		
Glu	Ser	Gly	Lys	Ser	Glu	Leu	Lys	Lys	Gln	Val	Lys	Pro	Lys	Xaa	Trp
		195					200					205			
Leu	Ser	Arg	Gly	Pro	Xaa	Pro	Xaa	Pro	Gly	Arg	Leu	Leu	Leu	Xaa	Cys
	210					215					220				
His	Val	Ser	Gly	Xaa	Tyr	Pro	Lys	Pro	Val	Trp	Val	Lys	Trp	Xaa	Xaa
	225				230					235					240
Gly	Glu	Gln	Glu	Gln	Gln	Gly	Thr	Gln	Pro	Xaa	Asp	Xaa	Xaa	Pro	Asn
				245					250					255	
Xaa	Asp	Glu	Thr	Trp	Tyr	Leu	Arg	Ala	Thr	Leu	Xaa	Val	Xaa	Ala	Gly
			260					265					270		
Glu	Ala	Xaa	Gly	Leu	Ser	Cys	Arg	Val	Lys	His	Ser	Ser	Leu	Xaa	Gly
		275					280					285			
Gln	Asp	Ile	Val	Leu	Tyr	Trp	Gly	Gly	Ser	Tyr	Thr	Ser	Met	Gly	Leu
	290					295					300				
Ile	Ala	Leu	Ala	Val	Leu	Ala	Cys	Leu	Leu	Phe	Leu	Leu	Ile	Val	Gly
	305				310					315					320
Phe	Thr	Ser	Arg	Phe	Lys	Arg	Gln	Thr	Ser	Tyr	Gln	Gly	Val	Leu	
				325					330					335	

<210> 16
 <211> 335
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)..(335)
 <223> Wherein Xaa is any amino acid.

<400> 16
 Met Gly Cys Leu Leu Phe Leu Leu Leu Trp Ala Leu Leu Gln Ala Trp
 1 5 10 15
 Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln
 20 25 30
 Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Xaa Thr Asp Gly Leu Ala
 35 40 45
 Xaa Leu Gly Glu Leu Gln Thr His Ser Trp Ser Xaa Asp Ser Asp Thr
 50 55 60
 Xaa Xaa Xaa Leu Lys Pro Trp Ser Gln Gly Thr Phe Ser Xaa Gln Xaa
 65 70 75 80
 Trp Glu Thr Leu Xaa His Ile Phe Xaa Xaa Tyr Arg Ser Ser Phe Thr
 85 90 95
 Arg Asp Val Lys Glu Phe Ala Lys Xaa Leu Arg Leu Ser Tyr Pro Xaa
 100 105 110
 Glu Leu Gln Xaa Xaa Ala Gly Cys Glu Val His Pro Gly Xaa Ala Ser
 115 120 125
 Asn Asn Phe Phe His Xaa Ala Xaa Gln Gly Xaa Asp Ile Leu Ser Phe
 130 135 140
 Gln Gly Thr Ser Trp Glu Pro Thr Gln Glu Ala Pro Xaa Trp Val Asn
 145 150 155 160
 Leu Ala Ile Gln Xaa Leu Asn Gln Asp Lys Trp Thr Arg Xaa Thr Val
 165 170 175
 Gln Trp Leu Leu Asn Gly Thr Cys Pro Gln Phe Val Ser Gly Leu Leu
 180 185 190
 Glu Xaa Gly Lys Xaa Glu Leu Lys Lys Gln Xaa Lys Pro Lys Ala Xaa
 195 200 205
 Leu Ser Arg Gly Pro Ser Pro Gly Pro Gly Arg Leu Leu Leu Val Cys
 210 215 220
 His Val Xaa Gly Phe Tyr Pro Lys Pro Val Trp Xaa Lys Trp Xaa Arg
 225 230 235 240

Gly	Glu	Gln	Glu	Gln	Gln	Gly	Thr	Gln	Pro	Gly	Asp	Ile	Leu	Pro	Asn	
				245					250					255		
Xaa	Asp	Glu	Thr	Trp	Tyr	Leu	Arg	Ala	Thr	Leu	Asp	Xaa	Xaa	Ala	Gly	
			260					265					270			
Glu	Ala	Ala	Gly	Leu	Xaa	Cys	Arg	Val	Lys	His	Ser	Ser	Leu	Glu	Gly	
		275					280					285				
Gln	Xaa	Xaa	Xaa	Leu	Tyr	Trp	Gly	Gly	Ser	Tyr	Thr	Ser	Met	Gly	Leu	
	290					295					300					
Ile	Ala	Leu	Ala	Val	Leu	Ala	Cys	Leu	Xaa	Phe	Leu	Leu	Ile	Val	Gly	
305					310					315					320	
Phe	Thr	Ser	Arg	Phe	Lys	Arg	Gln	Thr	Ser	Tyr	Gln	Gly	Val	Leu		
				325					330					335		